SOP for Deploying Flask Application on Azure Web Apps

- Soham Deshmukh

Objective:

This Standard Operating Procedure (SOP) outlines the steps required to deploy a Flask application on Azure Web Apps.

Github Link - https://github.com/som-d/Flask-app

Prerequisites:

1. Azure Account

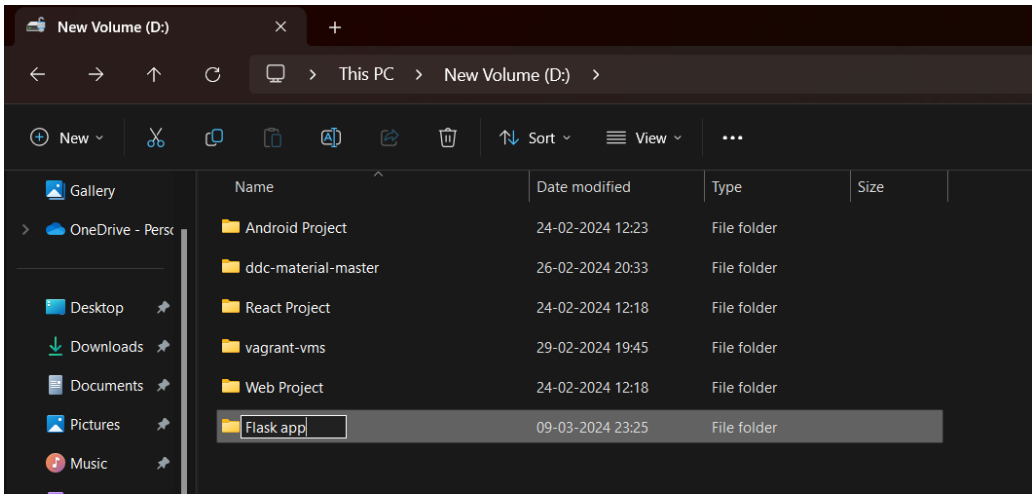
2. Github Account

3. Git: Install Git on your local machine. You can find installation instructions(https://git-scm.com/book/en/v2/Getting-Started-Installing-Git).

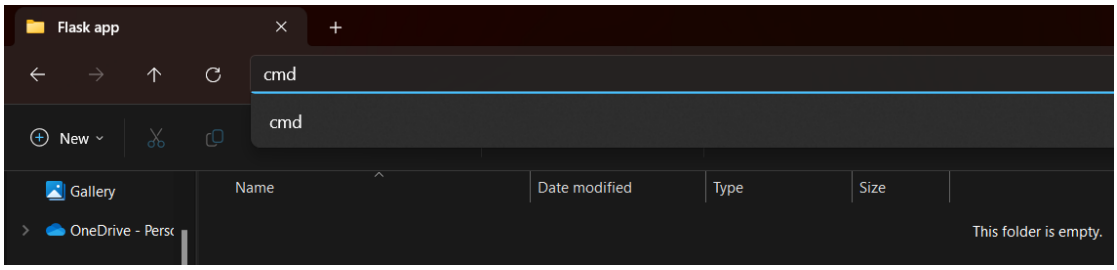
Procedure:

1. Application Setup:

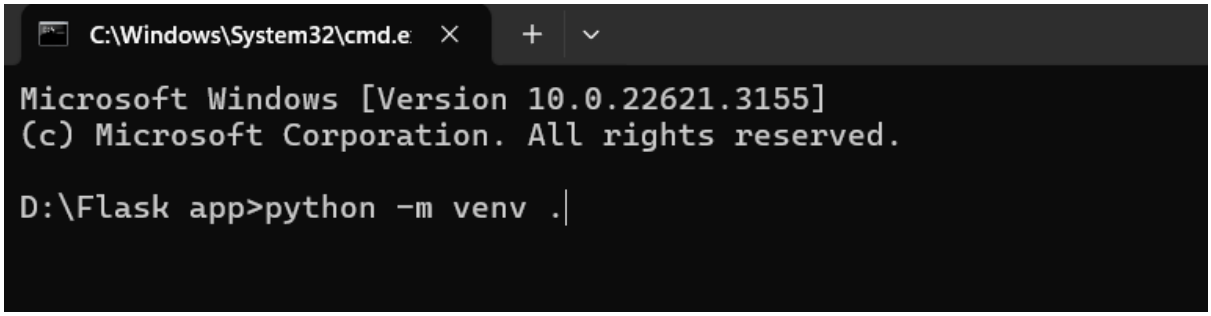
1. Creating Folder for Flask application code:



2. Open the folder and type cmd in search field:

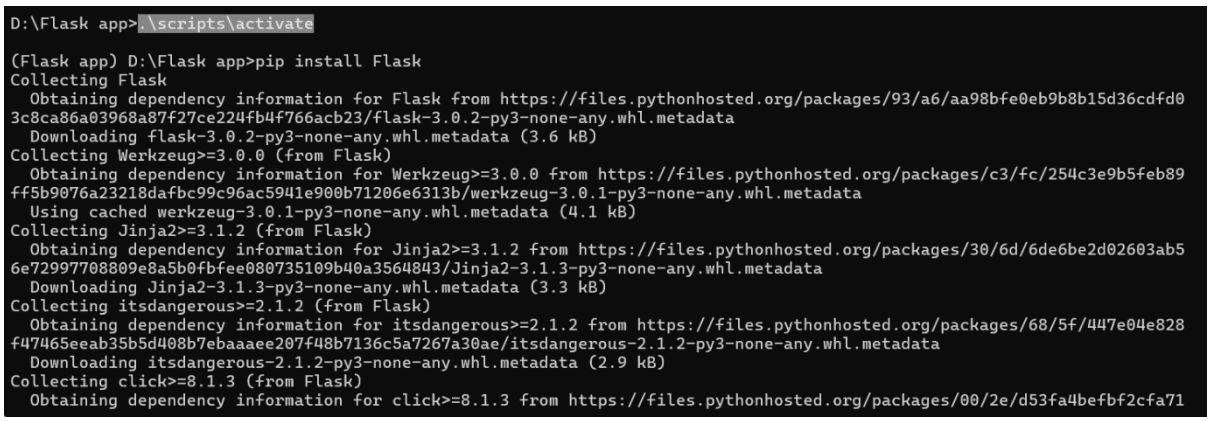


3. **Creating an environment for the Flask app:**
   Command : python -m venv .



4. **Activating the Virtual Environment:**

   Command : .\scripts\activate
   Installing Flask : pip install Flask

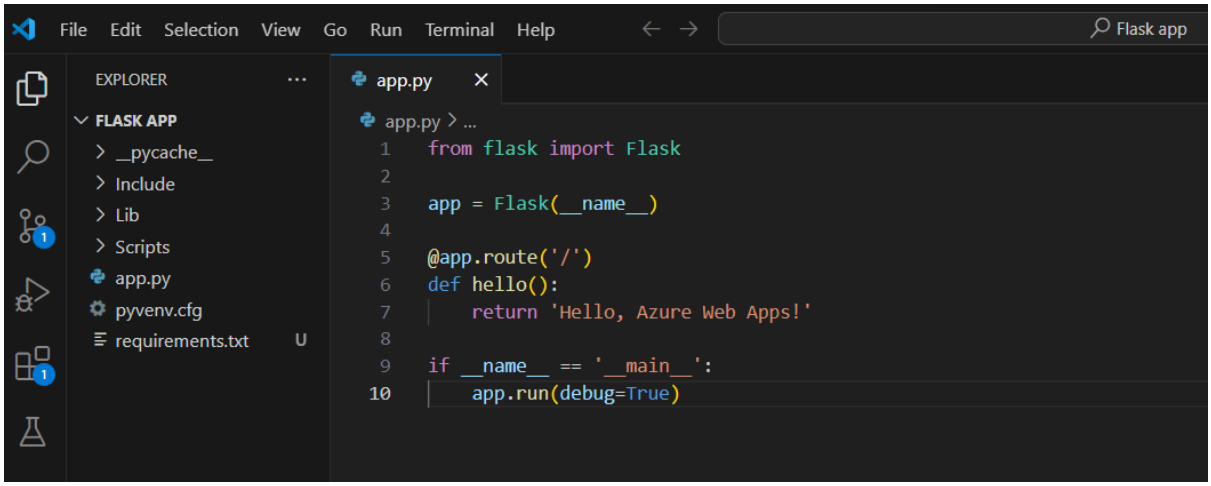


5. **Creating Requirements.txt :**

   Command : pip3 freeze > requirements.txt # Python3
   pip freeze > requirements.txt # Python2

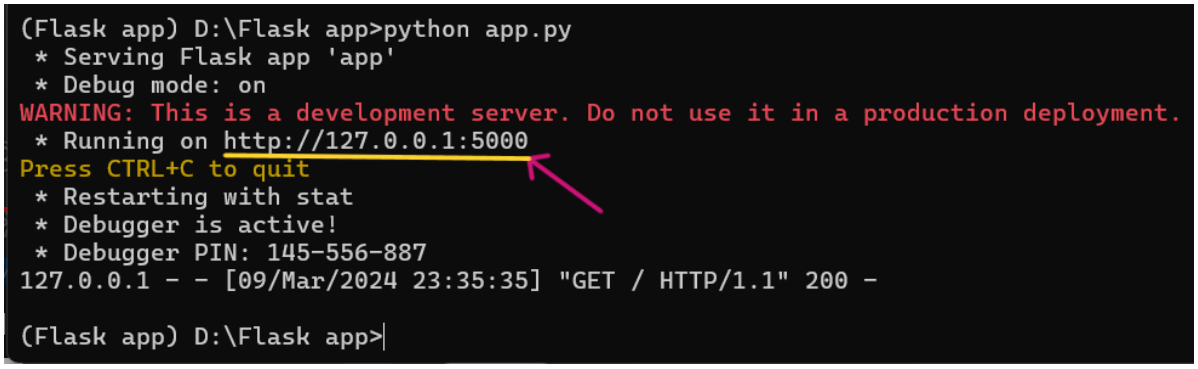
   Note – in requirement.txt comment/delete: pywin32==306

6. Creating app.py:



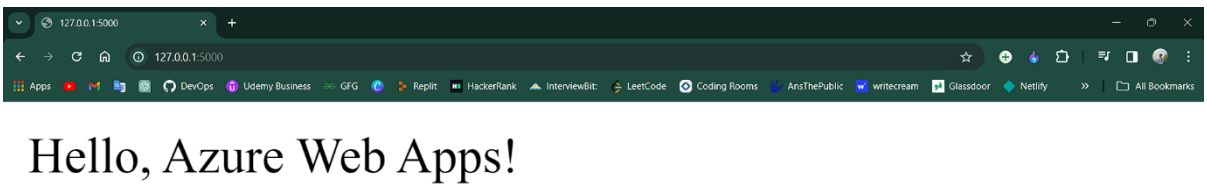
7. Starting the server:

Command : python app.py



- Copy the URL and past in browser to run Web App.

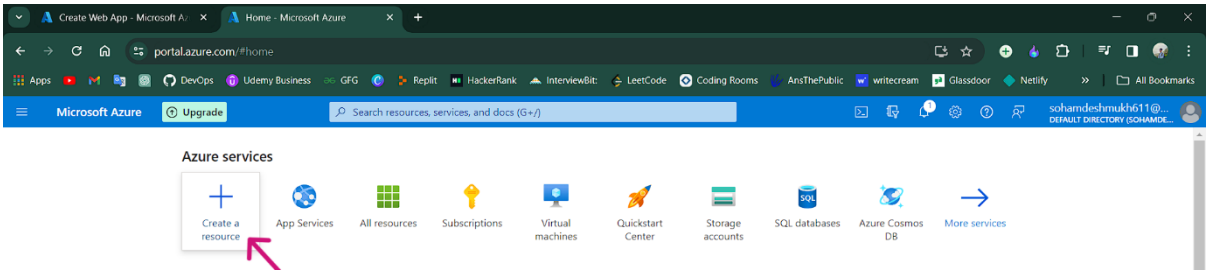
8. Flask app loaded on local server:



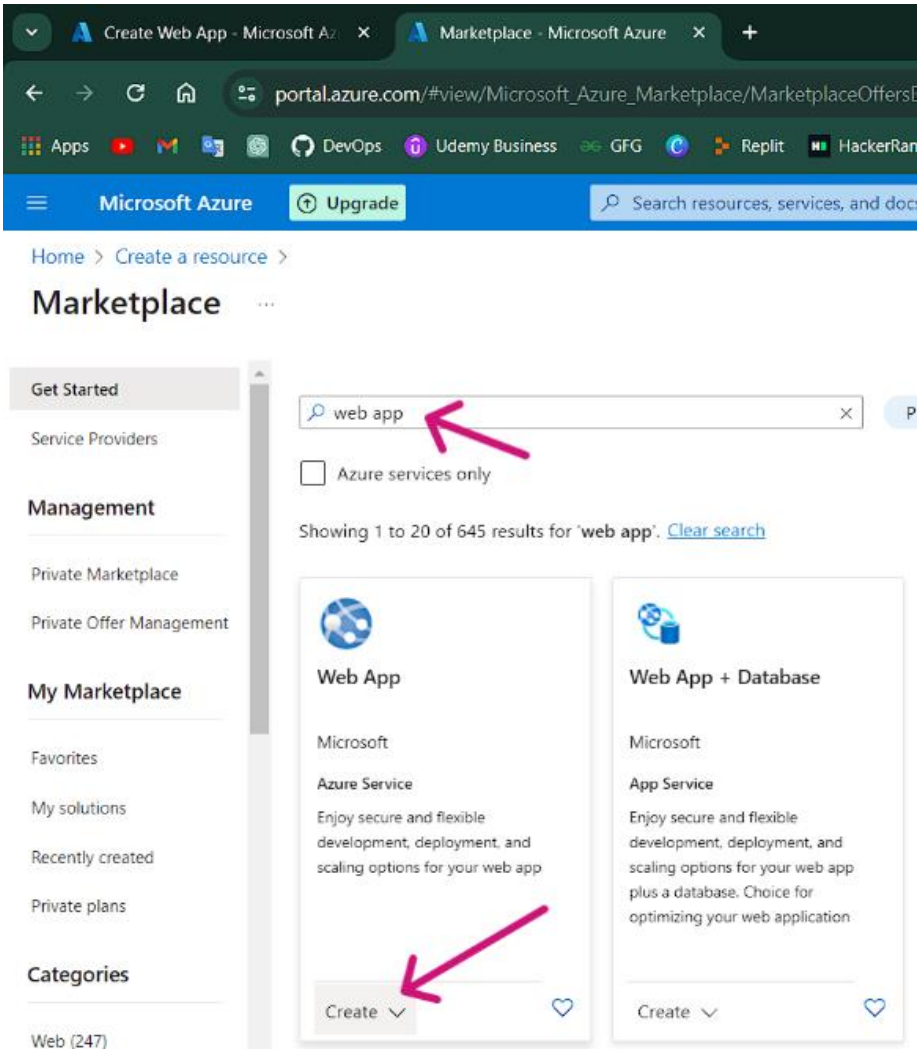
2. Create Azure Web App:

Create a new Azure Web App:

1. Login to Azure and click Create a resource:

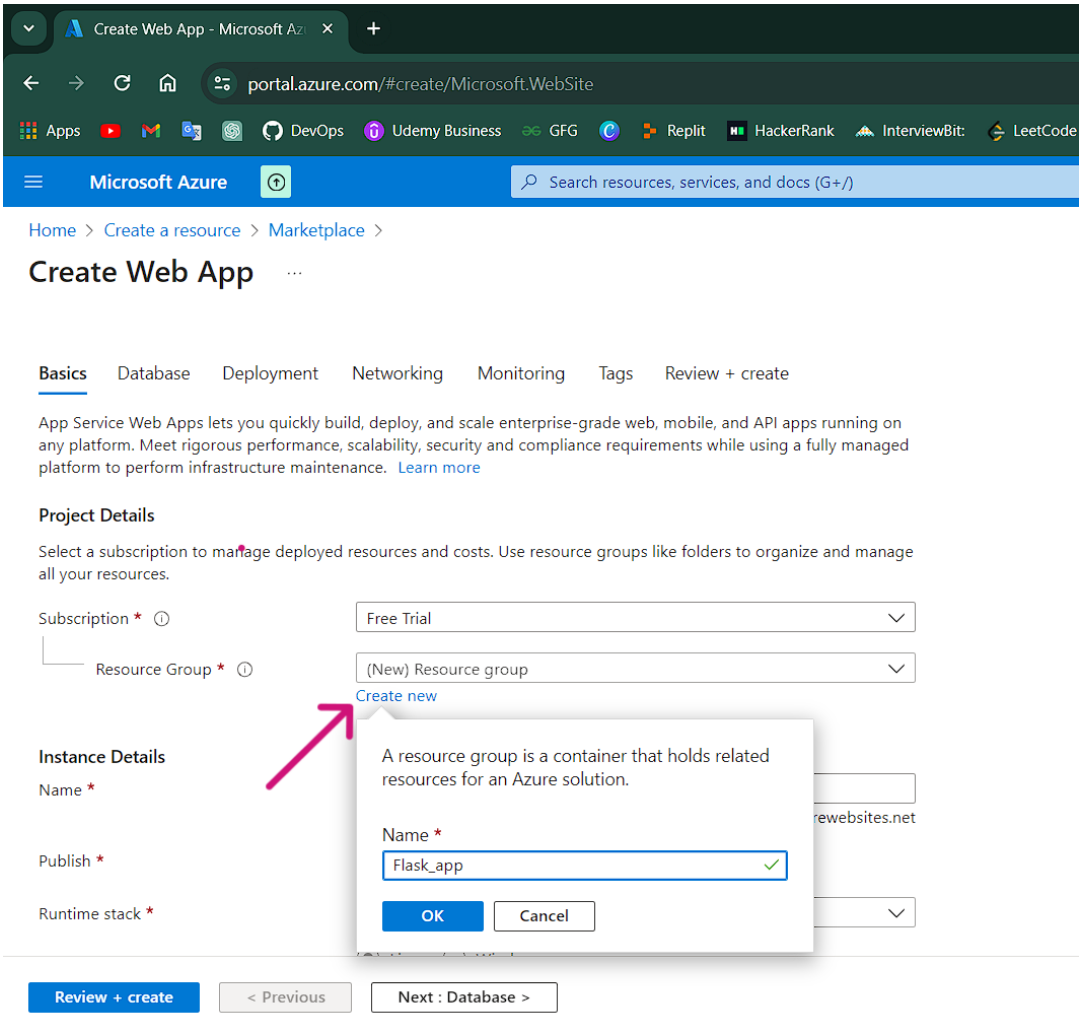


2. Search for Web App and click Create:

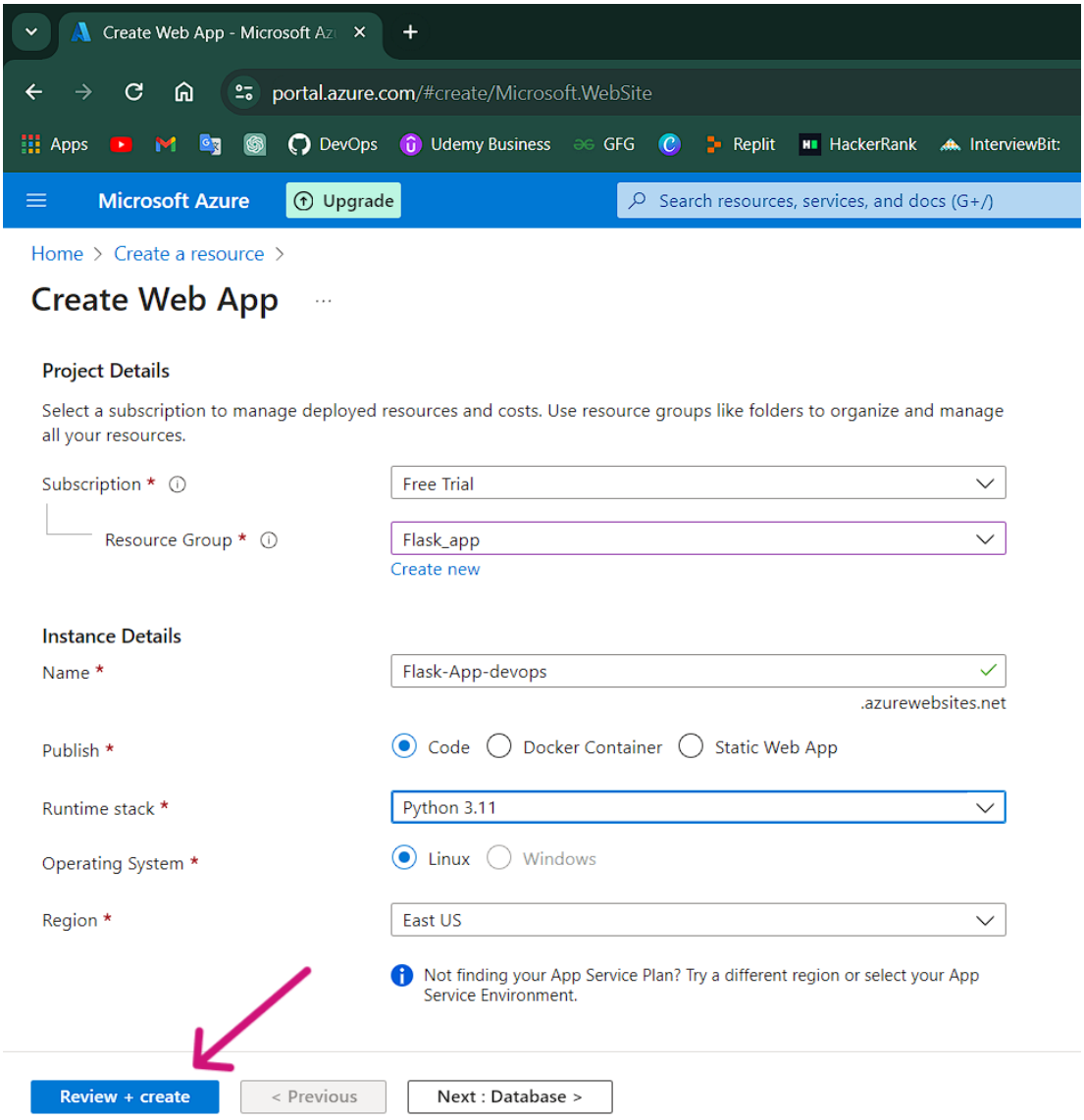


3. Creating Resource group:

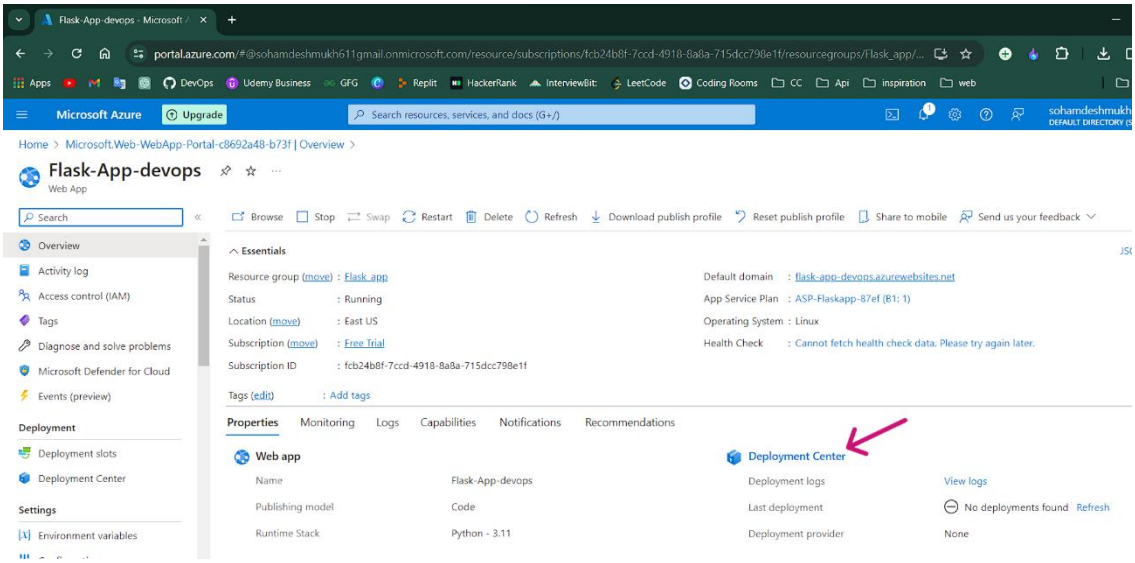
- Click Create New and name the resource group.



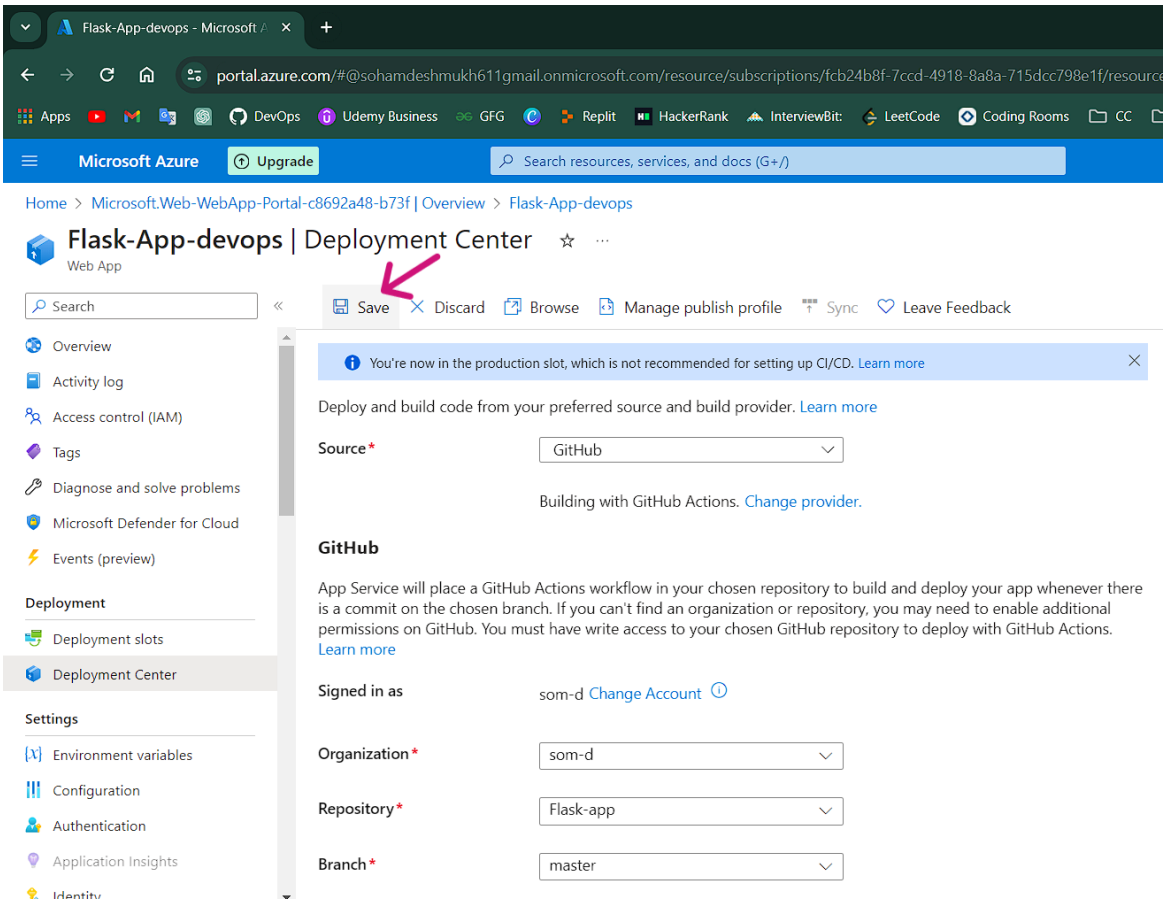
4. Fill in all required fields and click Create:



5. After creating the web app, click Deploy Center:



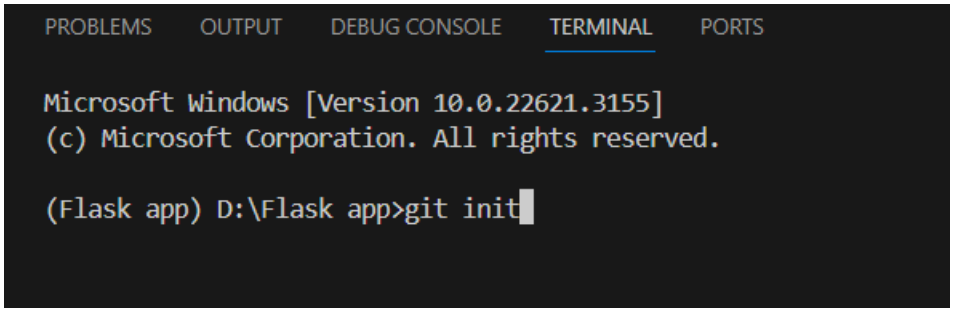
6. Fill in all required fields and click Save:



3.Azure Web App Deployment:

Deploy the application to the Azure Web App using Git:

1. **Creating an empty Git repository**
   Command : git init

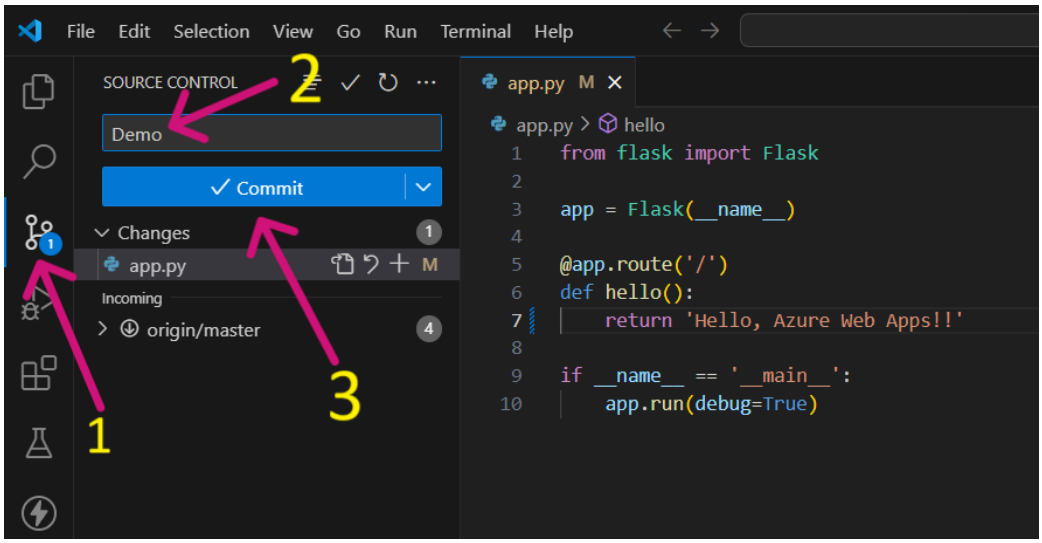


2. **Commit by using GUI:**

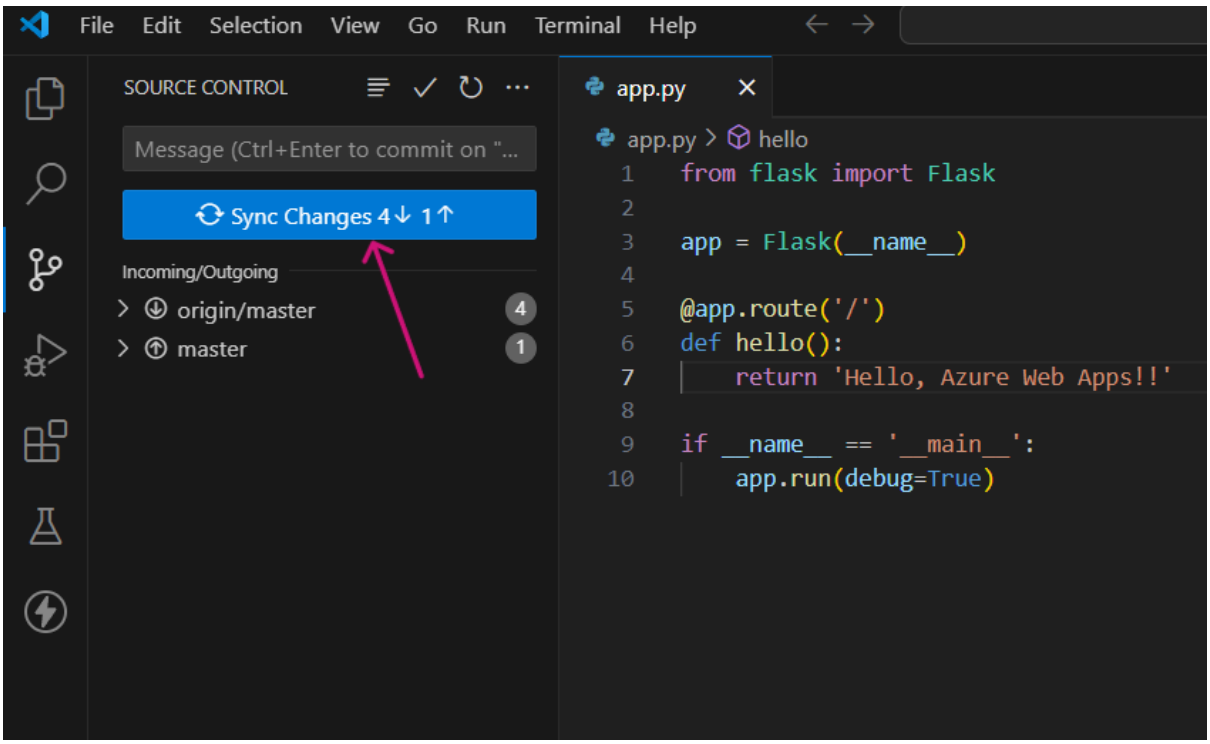
   Arrow 1: Click on Source Control.

   Arrow 2: Add a comment.

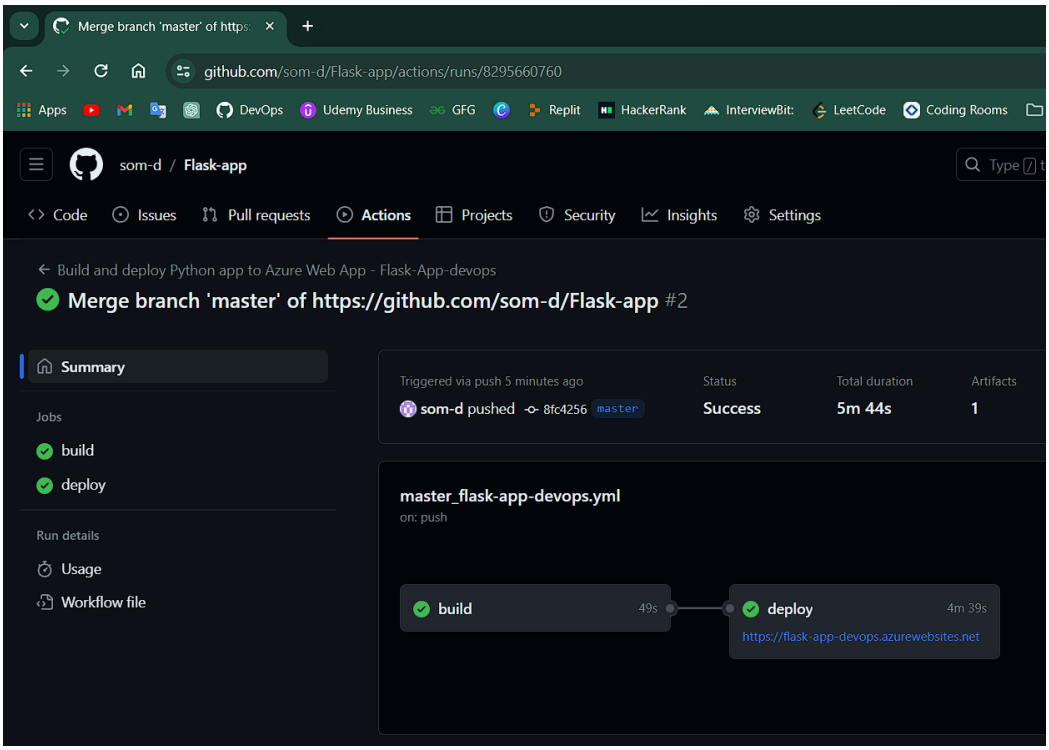
   Arrow 3: Click Commit.



3. **After that click Sync Changes:**

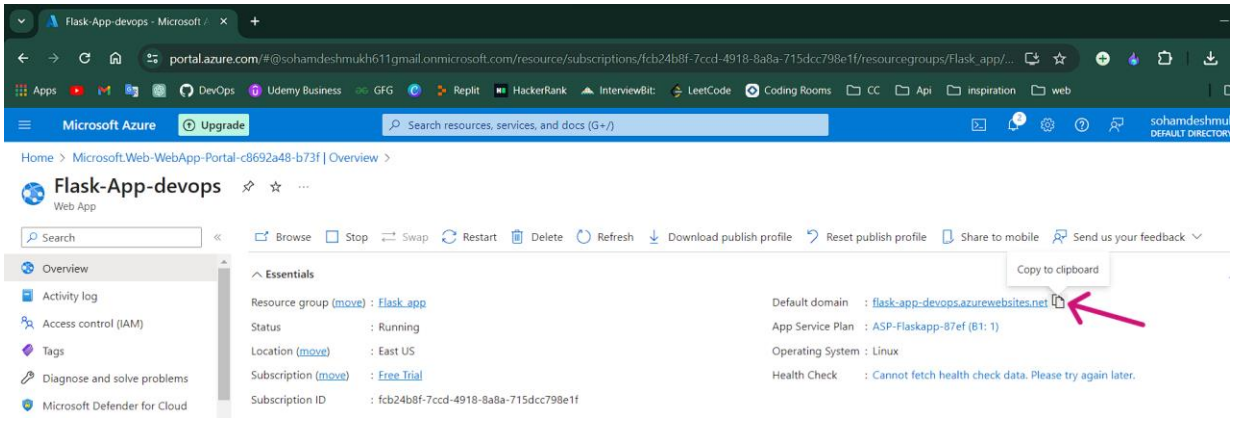


4. **Go to your Git repository and click on Actions to see all your workflows:**

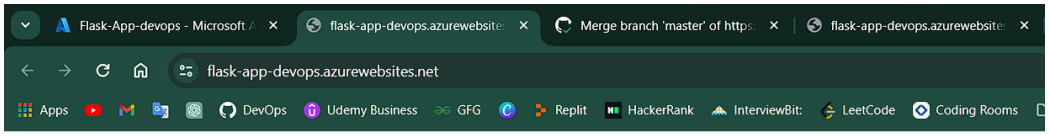


4. Testing:

1. **Once the deployment is complete, access the deployed application using the URL provided by Azure Web Apps.**



2. **You should receive a response "Hello, Azure Web Apps!" indicating that the application is running successfully.**



Hello, Azure Web Apps!!

Contributors:

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Contact Information:

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